



## MSI Cyborg 15 A13VE-681FR Intel® Core™ i5 i5-13420H Laptop 39,6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Black

**Brand :** MSI

**Product family:** Cyborg

**Article code:** CYBORG 15  
A13VE-681FR

**Product name :** Cyborg 15  
A13VE-681FR

MSI Cyborg 15 A13VE-681FR. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-13420H. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4050. Operating system installed: Windows 11 Home. Product color: Black



Design		Audio	
Colour name	Translucent Black	Number of built-in speakers	2
Product type *	Laptop	Speakers manufacturer	Nahimic
Product colour *	Black	Speaker power	2 W
Form factor *	Clamshell	Built-in microphone	✓
Market positioning	Gaming	Camera	
Display		Front camera	✓
Display diagonal *	39.6 cm (15.6")	Front camera HD type	HD
Display resolution *	1920 x 1080 pixels	Video capturing speed	30 fps
Touchscreen *	✗	Network	
HD type	Full HD	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
LED backlight	✓	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Native aspect ratio	16:9	Mobile network connection *	✗
Maximum refresh rate	144 Hz	WLAN controller model	Intel Wi-Fi 6E AX211
Processor		WLAN controller manufacturer	Intel
Processor manufacturer *	Intel	Ethernet LAN	✓
Processor family *	Intel® Core™ i5	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor generation	13th gen Intel® Core™ i5	Bluetooth	✓
Processor model *	i5-13420H	Bluetooth version	5.2
Processor cores	8	Ports & interfaces	
Processor boost frequency	4.6 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Performance cores	4	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Efficient cores	4	Ethernet LAN (RJ-45) ports	1
Performance-core Max Turbo Frequency	4.6 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	3.4 GHz	HDMI version	2.1
Efficient-core boost frequency	3.6 GHz	Combo headphone/mic port	✓
Processor cache	12 MB		
Processor cache type	Smart Cache		

Processor		Ports & interfaces	
Configurable TDP-down	35 W	Charging port type	DC-in jack
Processor base power	45 W	USB Type-C DisplayPort Alternate Mode	✓
Maximum turbo power	95 W		
Memory		Performance	
Internal memory *	16 GB	Motherboard chipset	Intel HM670
Internal memory type	DDR5-SDRAM	Repairability index	8.1
Memory clock speed	5200 MHz		
Memory form factor	SO-DIMM	Keyboard	
Memory slots	2x SO-DIMM	Pointing device	Touchpad
Maximum internal memory *	64 GB	Numeric keypad *	✓
Storage		Keyboard backlit	✓
Total storage capacity *	512 GB	Keyboard backlit colour	Blue
Storage media *	SSD	Island-style keyboard	✓
Total SSDs capacity	512 GB	Software	
Number of SSDs installed	1	Operating system installed *	Windows 11 Home
SSD capacity	512 GB	Processor special features	
SSD interface	PCI Express 4.0	Intel VT-x with Extended Page Tables (EPT)	✓
NVMe	✓	Execute Disable Bit	✓
SSD form factor	M.2	CPU configuration (max)	1
Optical drive type *	✗	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete GPU manufacturer	NVIDIA	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Battery	
Discrete graphics card memory	6 GB	Number of battery cells	3
Discrete graphics memory type	GDDR6	Battery capacity *	53.5 Wh
On-board graphics card *	✓	Power	
Discrete graphics card *	✓	AC adapter power	120 W
On-board graphics card family	Intel® UHD Graphics	Security	
On-board graphics card model *	Intel® UHD Graphics	Cable lock slot	✓
Audio		Weight & dimensions	
Audio system	Nahimic 3	Width	359.4 mm
		Depth	250.3 mm
		Height (front)	2.19 cm
		Height (rear)	2.29 cm
		Weight *	1.98 kg



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